IMMUNOLOGY

CONTENTS

Volume 104 Number 1 September 2001

Review articles

1 *Caroline Smith & Vincenzo Cerundolo:* Immunotherapy of melanoma

Comment

8 *Adrian Hayday & Deena Gibbons:* Regulated T-cell development: a victim of multiple conspiracies

Original articles

11 *Barry P. Sleckman, Juan Carabana, Xiaoping Zhong & Michael S. Krangel:* Assessing a role for enhancer-blocking activity in gene regulation within the murine T-cell receptor α/δ locus

19 *Peter S. Evans, Patrick J. Enders, Cheng Yin, Tracy J. Ruckwardt, Marek Malkovsky & C. David Pauza: In vitro* stimulation with a non-peptidic alkylphosphate expands cells expressing Vγ2-Jγ1.2/Vδ2 T-cell receptors

28 *Linna Ding & Ethan M. Shevach:* Inhibition of the function of the FcγRIIB by a monoclonal antibody to thymic shared antigen-1, a Ly-6 family antigen

37 *Baoyuan Bi, Nicola K. Littlewood & I. Nicholas Crispe:* Cleavage of E2F-1-regulating proteins and activation of E2F-1 during CD95-induced death of thymocytes

43 *Yoshiki Yanagawa, Kazuya Iwabuchi & Kazunori Onoé:* Enhancement of stromal cell-derived factor-1α-induced chemotaxis for CD4/8 double-positive thymocytes by fibronectin and laminin in mice

50 *Simon R. Hall & John Rhodes:* Schiff base-mediated co-stimulation primes the T-cell-receptor-dependent calcium signalling pathway in CD4 T cells

58 *Souravi Ghosh, John Walker & David C. Jackson:* Identification of canine helper T-cell epitopes from the fusion protein of canine distemper virus

67 *Mamoru Harada, Hisakata Yamada, Katsunori Tatsugami & Kikuo Nomoto:* Evidence of the extrathymic development of tyrosinase-related protein-2-recognizing $CD8^+$ T cells with low avidity

75 *Mohammad A. Shokrgozar & Fazel Shokri:* Enumeration of hepatitis B surface antigen-specific B lymphocytes in responder and non-responder normal individuals vaccinated with recombinant hepatitis B surface antigen

80 *Mónica Vermeulen, Patricia Pazos, Claudia Lanari, Alfredo Molinolo, Romina Gamberale, Jorge R. Geffner & Mirta Giordano:* Medroxyprogesterone acetate enhances in vivo and in vitro antibody production

87 *Linda Van Den Berg, Kjell-Morten Myhr, Beate Kluge & Christian A. Vedeler:* Fcγ receptor polymorphisms in populations in Ethiopia and Norway

92 *Denise V. R. Bullen, Rima Darwiche, Donald Metcalf, Emanuela Handman & Warren S. Alexander:* Neutralization of interferon-γ in neonatal $SOCS1^{-/-}$ mice prevents fatty degeneration of the liver but not subsequent fatal inflammatory disease

99 *Silvia Ragno, Maria Romano, Steven Howell, Darryl J. C. Pappin, Peter J. Jenner & Michael J. Colston:* Changes in gene expression in macrophages infected with Mycobacterium tuberculosis: a combined transcriptomic and proteomic approach

109 *James W. Peacock & Kenneth L. Bost:* Murine gammaherpesvirus-68-induced interleukin-10 increases viral burden, but limits viral-induced splenomegaly and leukocytosis

118 Erratum

Vol 104, No 2, October 2001

Review articles

119 *Gillian Grafton & Leanne Thwaite:* Calcium channels in lymphocytes

Original articles

127 *Michael Schultz, Stephen H. Clarke, Larry W. Arnold, R. Balfour Sartor & Susan L. Tonkonogy:* Disrupted B-lymphocyte development and survival in interleukin-2-deficient mice

135 *H. Kameyama, T. Kawamura, T. Naito, M. Bannai, Kazuhiko Shimamura, K. Hatakeyama & T. Abo:* Size of the population of $CD4^+$ natural killer T cells in the liver is maintained without supply by the thymus during adult life

142 *Yijun Xu & Judith A. Kapp:* γδ T cells are critical for the induction of anterior chamber-associated immune deviation

149 *Alexander Brill, Susanne Franitza, Ofer Lider & Rami Hershkoviz:* Regulation of T-cell interaction with fibronectin by transforming growth factor-β is associated with altered Pyk2 phosphorylation

157 *Irene S. Leal, Birgitte Smedegård, Peter Andersen & Rui Appelberg:* Failure to induce enhanced protection against tuberculosis by increasing T-cell-dependent interferon-γ generation

162 *Tsuneyuki Oikawa, Toshiyuki Yamada, Nobuo Kondoh, Fumiko Negishi-Kihara, Yoshiaki Hitomi, Mitsuhiro Suzuki & Sayaka Teramoto:* Extinction of expression of the genes encoding haematopoietic cell-restricted transcription factors in T-lymphoma × fibroblast cell hybrids

168 *Philip M. Spence, Venkataraman Sriram, Luc Van Kaer, Jacqueline A. Hobbs & Randy R. Brutkiewicz:* Generation of cellular immunity to lymphocytic choriomeningitis virus is independent of CD1d1 expression

175 *C. P. Carrasco, R. C. Rigden, R. Schaffner, H. Gerber, V. Neuhaus, S. Inumaru, H. Takamatsu, G. Bertoni, K. C. McCullough & A. Summerfield:* Porcine dendritic cells generated *in vitro*: morphological, phenotypic and functional properties

185 *Mark T. Quinn, Steve D. Swain, Charles A. Parkos, Kathryn L. Jutila, Daniel W. Siemsen, Sandra L. Kurk, Algirdas J. Jesaitis & Mark A. Jutila:* A carbohydrate neoepitope that is up-regulated on human mononuclear leucocytes by neuraminidase treatment or by cellular activation

198 *Jonathan S. Reichner, Paul A. Fitzpatrick, Eric Wakshull & Jorge E. Albina:* Receptor-mediated phagocytosis of rat macrophages is regulated differentially for opsonized particles and non-opsonized particles containing β-glucan

207 *Takashi Miwa, Xiujun Sun, Rieko Ohta, Noriko Okada, Claire L. Harris, B. Paul Morgan & Wen-Chao Song:* Characterization of glycosylphosphatidylinositol-anchored decay accelerating factor (GPI-DAF) and transmembrane DAF gene expression in wild-type and GPI-DAF gene knockout mice using polyclonal and monoclonal antibodies with dual or single specificity

215 *Feng Lin, Yoshihiro Fukuoka, Andrew Spicer, Rieko Ohta, Noriko Okada, Claire L. Harris, Steven N. Emancipator & M. Edward Medof:* Tissue distribution of products of the mouse decay-accelerating factor (DAF) genes. Exploitation of a *Daf1* knock-out mouse and site-specific monoclonal antibodies

226 *Hiroko Saito, Karen Howie, Jennifer Wattie, Avram Denburg, Russ Ellis, Mark D. Inman & Judah A. Denburg:* Allergen-induced murine upper airway inflammation: local and systemic changes in murine experimental allergic rhinitis

235 *Gregory P. Geba, Wlodzimierz Ptak & Philip W. Askenase:* Topical tacrolimus and cyclosporin A differentially inhibit early and late effector phases of cutaneous delayed-type and immunoglobulin E hypersensitivity

Vol 104, No 3, November 2001

Review articles

243 *D. Branch Moody & Gurdyal S. Besra:* Glycolipid targets of CD1-mediated T-cell responses

Original articles

252 *Frank Straube & Thomas Herrmann:* Differential modulation of CD8β by rat γδ and αβ T cells after activation

259 *Takanori So, Hiro-O. Ito, Masato Hirata, Tadashi Ueda & Taiji Imoto:* Contribution of conformational stability of hen lysozyme to induction of type 2 T-helper immune responses

269 *Ulrike Seitzer, Klaus Kayser, Hanni Höhn, Peter Entzian, Hans-Heinrich Wacker, Sabine Ploetz, Hans-Dieter Flad, Johannes Gerdes & Markus J. Maeurer:* Reduced T-cell receptor CD3ζ-chain protein and sustained CD3ε expression at the site of mycobacterial infection

278 *Hanni Höhn, Cornelius Kortsik, Katja Nilges, Antje Necker, Kirsten Freitag, Glenn Tully, Claudia Neukirch & Markus J. Maeurer:* Human leucocyte antigen-A2 restricted and *Mycobacterium tuberculosis* 19-kDa antigen-specific $CD8^+$ T-cell responses are oligoclonal and exhibit a T-cell cytotoxic type 2 response cytokine-secretion pattern

289 *Yoko Nakano, Hajime Hisaeda, Tohru Sakai, Manxin Zhang, Yoichi Maekawa, Tianqian Zhang, Masaaki Nishitani, Hiroyuki Ishikawa & Kunisuke Himeno:* Granule-dependent killing of *Toxoplasma gondii* by $CD8^+$ T cells

299 *John D. Fayen:* Multiple cytokines sharing the common receptor γ chain can induce CD154/CD40 ligand expression by human $CD4^+$ T lymphocytes via a cyclosporin A-resistant pathway

307 *Keiko Watano, Kazuya Iwabuchi, Satoshi Fujii, Naoki Ishimori, Shinya Mitsuhashi, Manabu Ato, Akira Kitabatake & Kazunori Onoé:* Allograft inflammatory factor-1 augments production of interleukin-6, -10 and -12 by a mouse macrophage line

317 *Claire L. Harris, Miriam A. Vigar, Julia E. Rey Nores, Vaclav Horejsi, Mario O. Labeta & B. Paul Morgan:* The lipopolysaccharide co-receptor CD14 is present and functional in seminal plasma and expressed on spermatozoa

324 *Yutaka Kida, Koichi Kuwano, Ye Zhang & Sumio Arai: Acholeplasma laidlawii* up-regulates granulysin gene expression via transcription factor activator protein-1 in a human monocytic cell line, THP-1

333 *Tsutomu Yoshikawa, Teruaki Imada, Hiroshi Nakakubo, Norifumi Nakamura & Koji Naito:* Rat mast cell protease-I enhances immunoglobulin E production by mouse B cells stimulated with interleukin-4

341 *Kathleen L. DeCicco, John D. Youngdahl & A. Catharine Ross:* All-*trans*-retinoic acid and polyriboinosinic : polyribocytidylic acid in combination potentiate specific antibody production and cell-mediated immunity

349 *Ana Paula Galvão da Silva & Ises de Almeida Abrahamsohn:* Interleukin-12 stimulation of lymphoproliferative responses in *Trypanosoma cruzi* infection

355 *Yan Ruan, Yoshitaka Okamoto, Zensei Matsuzaki, Shuichiro Endo, Tomokazu Matsuoka, Tadashi Kohno, Hideaki Chazono, Ito Eiko, Kazuo Tsubota & Ichiro Saito:* Suppressive effect of locally produced interleukin-10 on respiratory syncytial virus infection

Vol 104, No 4, December 2001

Review articles

361 *Mark Peakman & Colin M. Dayan:* Antigen-specific immunotherapy for autoimmune disease: fighting fire with fire?

367 *Stephen M. Anderton:* Peptide-based immunotherapy of autoimmunity: a path of puzzles, paradoxes and possibilities

377 *Mark Larché:* Inhibition of human T-cell responses by allergen peptides

Original articles

383 *Benoît Fellay, Michel Chofflon, Catherine Juillard, Anne-Marie Paunier, Theodor Landis, Serge Roth & Marie-Lise Gougeon:* Beneficial effect of co-polymer 1 on cytokine production by CD4 T cells in multiple sclerosis

392 *Katrina L. Scarff, Louise M. Judd, Wendy E. Wilson, Karen L. Laurie, Ban-Hock Toh, Paul A. Gleeson & Ian R. van Driel:* Requirements for autoimmune responses to mouse gastric autoantigens

402 *Susumu Nakae, Masahide Asano, Reiko Horai & Yoichiro Iwakura:* Interleukin-1β, but not interleukin-1α, is required for T-cell-dependent antibody production

410 *Yuka Hirose, Hitoshi Kiyoi, Katsuhiko Itoh, Koji Kato, Hidehiko Saito & Tomoki Naoe:* B-cell precursors differentiated from cord blood $CD34^+$ cells are more immature than those derived from granulocyte colony-stimulating factor-mobilized peripheral blood $CD34^+$ cells

418 *Claus H. Nielsen, Hanne V. Marquart, Wolfgang M. Prodinger & Robert G. Q. Leslie:* CR2-mediated activation of the complement alternative pathway results in formation of membrane attack complexes on human B lymphocytes

423 *David S. Bardenstein, Christopher J. Cheyer, Chieh Lee, Enzo Cocuzzi, Masashi Mizuno, Noriko Okada & M. Edward Medof:* Blockage of complement regulators in conjunctiva and within the eye leads to massive inflammation and iritis

431 *Marina Viora, Maria Giovanna Quaranta, Elisabetta Straface, Rosaria Vari, Roberta Masella & Walter Malorni:* Redox imbalance and immune functions: opposite effects of oxidized low-density lipoproteins and *N*-acetylcysteine

439 *Rutendo B. Zinyama, Gregory J. Bancroft & Lynette B. Sigola:* Adrenaline suppression of the macrophage nitric oxide response to lipopolysaccharide is associated with differential regulation of tumour necrosis factor-α and interleukin-10

447 *Shokrollah Elahi, Gerald Pang, Robert B. Ashman & Robert Clancy:* Nitric oxide-enhanced resistance to oral candidiasis

455 *Andreas Gruber, Claudia P. Lell, Cornelia Speth, Heribert Stoiber, Cornelia Lass-Flörl, Anja Sonneborn, Joachim F. Ernst, Manfred P. Dierich & Reinhard Würzner:* Human immunodeficiency virus type 1 Tat binds to *Candida albicans*, inducing hyphae but augmenting phagocytosis *in vitro*

462 *Alicia Ponte-Sucre, Dirk Heise & Heidrun Moll: Leishmania major* lipophosphoglycan modulates the phenotype and inhibits migration of murine Langerhans cells

468 *Malgorzata Zak-Prelich, Katrina E. Halliday, Craig Walker, Catherine M. Yates, Mary Norval & Roddie C. McKenzie:* Infection of murine keratinocytes with herpes simplex virus type 1 induces the expression of interleukin-10, but not interleukin-1α or tumour necrosis factor-α

477 **Author and Subject Indexes for Volume 104**